



CONSTRUCTION STORMWATER GENERAL PERMIT INSPECTION REPORT

State of Washington Department of Ecology

Section A: General Data

Ecology Inspector(s): Carol Serdar	On-Site Representative Name: Thom Fischer Title:	Inspection Date and Entry/Exit Time: 11 Aug 2020, 14:45/18:44	Inspection Type: ERTS Response (#699710)
Contaminated CSWGP Inspector Phone: 360.742.9751 Email: carolserdar@ecy.wa.gov		Receiving waters: Puyallup River	Permit webpage: https://fortress.wa.gov/ecy/puris/FacilitySummary.aspx?FacilityId=70091

Section B: Background

Note: See Corrections Required Form

The Electron Hydro LLC Intake project is covered under the State of Washington's Construction Stormwater General Permit (CSWGP). The CSWGP is a National Pollutant Discharge Elimination System (NPDES) and a State Waste Discharge permit for discharge of construction-related stormwater. Carol Serdar had previously been to the site a few years' prior, during the JARPA review for the then proposed construction of the barrier dam and intake structure.

The purpose of this inspection is to follow up with a site visit/inspection based on an Environmental Report Tracking System (ERTS) complaint (ERTS #699710) and to provide technical assistance as appropriate. On 3 August 2020, Ecology learned of the ERTS for the use of the sports turf (and small rubber bits that have degraded off the turf) in the river. Carol called the permittee, Thom Fischer to discuss the ERTS reported by a member of the public and the violation of CSWGP condition S5.F. Noncompliance Notification (permittee is obligated to self report). Thom explained he had used geotextile fabric below the 80 ml liner but was unable to prevent ripping of the liner, so he used the sports turf below the liner. Rolls of sports turf were delivered from a nearby rock quarry. The rolls were delivered to the site (at the staging area along the bend in the haul road to the in-water construction zone area), then a crane was used to place the rolls of sports turf in the riverbed. The crane is on the left bank of the Puyallup River. The river is now flowing in the lined portion of the channel (right bank). The river removed a portion of the sports turf (originally placed below the liner), and is currently in the river substrate several thousand feet downstream from the construction zone. Thom explained that Shane Cherry, consultant, is developing a removal plan for the sports turf. Carol and Thom set up time to meet the afternoon of 17 August 2020 for a CSWGP compliance inspection. Carol made the initial inspection on 11 August 2020 to ensure the site was in compliance with the ERTS issues.

Carol and Thom met at the dam office and drove out to the site along the forest road. Thom was present during inspection and all listed observations and recommendations were discussed. Steve Goodrich, CESCL was present for most of this site visit. Carol explained the main reason for site visit was for ERTS #699710 and the use of sports turf in the riverbed. Carol requested to go to the location in which the rolls of sports turf were delivered to the site.

Thom, Steve, and Carol discussed discharge monitoring reports (DMRs) that have been reported for the site since it was permitted. Each monthly report states "No Discharge" which would not be possible based on the storm events that occurred during winter 2019-20 and the amount of ground disturbance that was present during the last winter. It was explained that the water quality sampling done in the river was to suffice CSWGP sampling requirements. The permittee incorrectly assumed that sampling background (above all ground disturbing activities within the ordinary high water) and downstream of the activities would be inclusive of CSWGP requirements. Monthly filing of the DMRs is up-to-date, and it was explained that no data associated with the upland work is available to fix previous DMR filings. The permittee now understands that they are expected to sample for turbidity and pH if discharges occur from the upland, and they will continue to file the monthly DMRs (CSWGP condition S5.B.) during the next storm event, and weekly until the CSWGP permit is terminated.

The CSWGP weekly Site Inspection Report, currently utilized, is an old form; Carol recommended they immediately begin using the updated form that specifies the 13 Elements.

No additional CSWGP paperwork was reviewed during this inspection.

Weather at time of inspection: Sunny and 60s

Precipitation in the past 24 hours?

☐ Yes

☒ No

On site observations:

Drove out a Hancock forestland road to the site of the barrier dam and intake structure construction, and parked along the road parallel to the Puyallup River at the barrier dam. The area where the sports turf was delivered was pointed out to be back up the road, and Carol decided to look when driving out of the site.

Currently, the site is permitted under the CSWGP, for 4.5 acres of disturbance. Carol noted the upland area of disturbance appears to be greater than 4.5 acres. Discussed there may be a need for the disturbed area to be expanded for compliance with the CSWGP, which may require additional public notification (CSWGP condition G.20). (post script: The disturbed area was roughly digitized on Google Earth after this inspection, using observations from this inspection, appears to be over 9 acres in total)

The long, bare/exposed and unworked soil slopes from the road down toward the Ordinary High Water (OHW) of the Puyallup River was discussed and based on the CSWGP must be stabilized within seven days (CSWGP condition S9.D.9.d.); the driving surface of the road consists of fine silt/dirt which likely will cause a significant discharge into waters of the state at the first storm event. Thom agreed the road surface needed to be modified and we discussed BMP options.

Light pole with generators appeared to not have secondary containment, on closer inspection, the light poles have built in secondary containment. Other generators, including a large one for the pumping of dewatering water in construction zone, do not have secondary containment. Secondary containment is a requirement of CSWGP condition S9.D.9.b. (secondary containment means placing tanks or containers within an impervious structure capable of containing 110% of the volume contained in the largest tank within the containment structure).

Construction stormwater management was explained: water from upland staging and dewatering water from the construction zone in the riverbed are comingled in the CSWGP stormwater system. This system includes a conveyance ditch near the base of the hillslope, sediment pond containing an outlet structure, which when overflows, drains to the stormwater pond. Water from the stormwater pond is settled out through a series of weirs constructed of straw bales. Discussed that although many sites use straw bales, the usage of straw bales as a BMP were removed from the Stormwater Management Manual of Western Washington (SWMMWW) in 2014. Use of the 2019 SWMMWW is now the requirement of the CSWGP (as of 31 December 2020 – CSWGP revision in process now).

No rubber bits from the sports turf were observed in the area along the big bend in the access/haul road. Thom stated he would have his employees look for and remove any additional black rubber bits from the sports turf and dispose of them properly (garbage bags and brought to an appropriate landfill).

Drove out of construction area at 6:00PM

Section C: Compliance

Note: See Corrections Required Form

A complete compliance inspection was not conducted at this inspection (see Violations Section for Compliance issues) Inspection Checklist

<p><u>Is the Permit Coverage Letter on-site?</u></p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	<p><u>Is a copy of the CSWGP on-site?</u></p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	<p><u>Is the Site Log Book Current?</u></p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>	<p><u>Is the Site Log Book Adequate?</u></p> <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
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<u>Are Site Inspections Recorded?</u> <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>Are Site Inspections Adequate?</u> <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>Permittee has Prepared and Implemented a SWPPP?</u> <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>Is the SWPPP Adequate?</u> <input type="checkbox"/> Yes <input type="checkbox"/> No
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<u>Violations and action required to achieve compliance</u>	<u>Complete or submit date</u>	<u>Guidance</u>
<p>S5.F Noncompliance Notification Failure to report high sediment discharge. Failure to meet S5.F: In the event the Permittee is unable to comply with any part of the terms and conditions of this permit, and the resulting noncompliance may cause a threat to human health or the environment (such as but not limited to spills of fuels or other materials, catastrophic pond or slope failure, and discharges that violate water quality standards), or exceed numeric effluent limitations, the Permittee must, upon becoming aware of the circumstance: either call the applicable Ecology Region's Environmental Report Tracking System (ERTS) number by phone within 24 hours of analysis or submit an electronic ERTS report (or submit an electronic report through Ecology's Water Quality Permitting Portal (WQWebPortal) – Permit Submittals when the form is available).</p> <p>A follow up report is to be submitted to Ecology within five days, explaining the manner in which the violation occurred and steps taken to remedy the violation.</p>	<p>Within 24 hours of analysis.</p>	<p>Call the Southwest Region ERTS number: (360) 407-6300.</p>
<p>S5.B. Discharge Monitoring Reports (DMRs) Failure to file monthly DMRs. Failure to meet S5.B.: Permittees are required to conduct water quality sampling in accordance with Special Considitons S4.C (Turbidity/Transparency), S8. (303[d]/TMDL Sampling), and/or G13 (Additional Sampling) and submit the results to Ecology within 15 days following the end of each month.</p>	<p>As soon as possible (ASAP)</p>	<p>WQWebDMR web application: http://www.ecy.wa.gov/programs/wq/permits/paris/portal.html</p>
<p>For assistance with any of these compliance issues or recommendations regarding BMPs, please see the 2014 Stormwater Management Manual for Western Washington (SWMMWW), Volume II, Construction Stormwater Pollution Prevention which includes BMPs for Source Control and Runoff Conveyance and Treatment BMPs. The full SWMMWW is available at: http://www.ecy.wa.gov/programs/wq/stormwater/manual.html.</p> <p>The Department of Ecology has the authority to issue formal enforcement actions including issuance of orders and civil penalties of up to \$10,000 per day per violation for violations of your NPDES permit and/or state laws and regulations.</p> <p><i>Noncompliance with the limits, monitoring requirements, terms and/or conditions established in your permit may result in formal enforcement action by the Department of Ecology.</i></p>		

Ecology Inspector (signature): Carol Serdar Date: Aug 11, 2020
Ecology Inspector (print name): Carol Serdar

Water Quality Program
Southwest Regional Office
PO Box 47775 Olympia, WA 98504-7775
SWRO Tel: 360-407-6300

All photos taken by Carol Serdar

Photo 1

Photo Description: Light pole with generator has built in secondary containment.



Date:2020/08/11 Time:15:52:00 Lat:46.90587 Long:-122.03973 Direction degrees:197.46

EH0005865

Photo 2

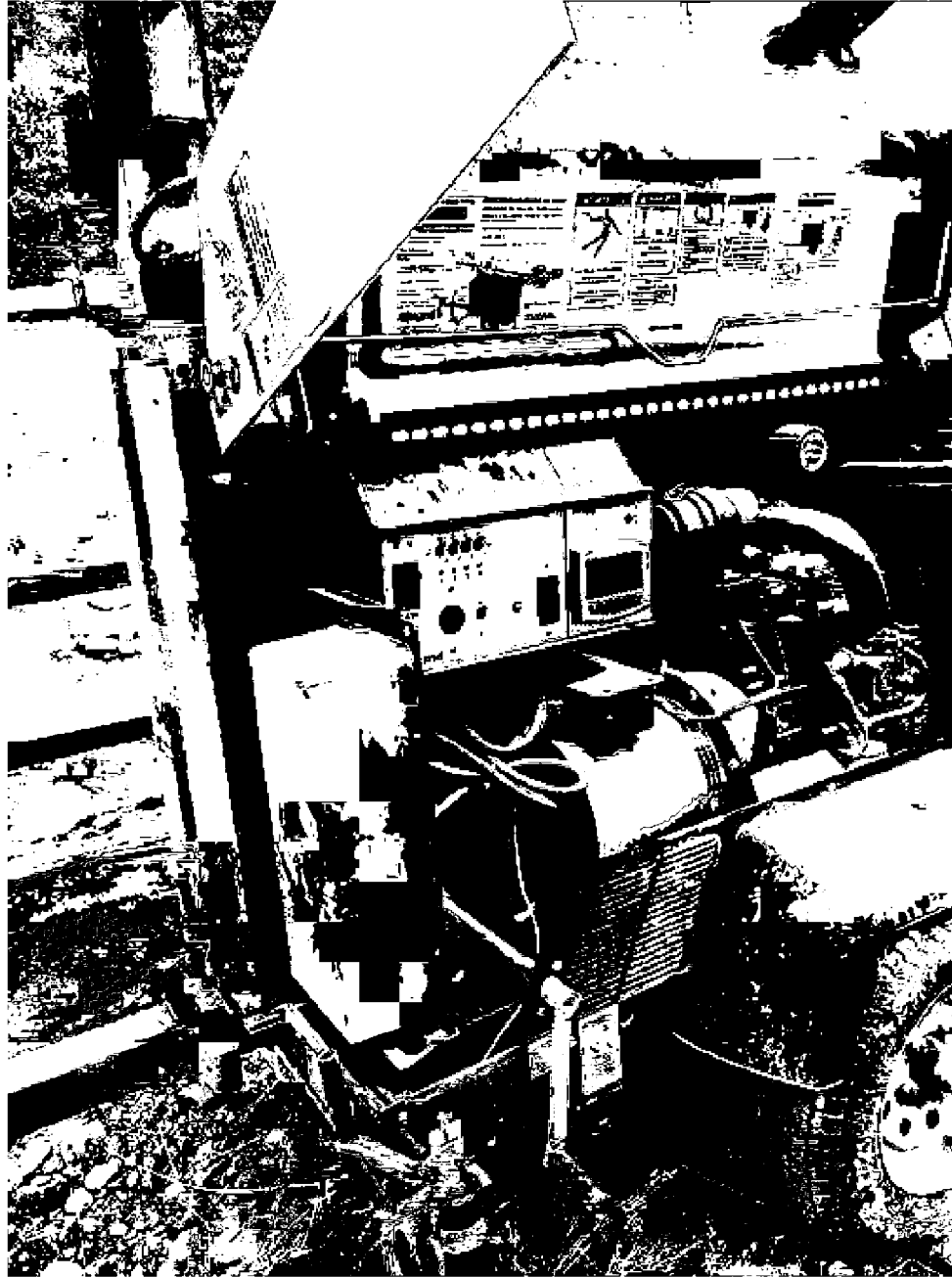
Photo Description: Looking up river from the haul road above the intake structure.



Date:2020/08/11 Time:15:52:37 Lat:46.90584 Long:-122.03972 Direction degrees:268.4

Photo 3

Photo Description: Light pole generator with secondary containment.



Date:2020/08/11 Time:15:57:17 Lat:46.90586 Long:-122.03975 Direction degrees:268.4

Photo 4

Photo Description: Intake structure along the left bank of the Puyallup River, note water seeps along base of slope. The concrete vaults at the bend in the road (upper center of photo) is the location of where the sports turf was delivered.



Date:2020/08/11 Time:15:58:08 Lat:46.90589 Long:-122.03975 Direction degrees:36.52

Photo 5

Photo Description: No secondary containment for green pump for dewatering the construction zone.



Date:2020/08/11 Time:16:01:07 Lat:46.9059 Long:-122.03977 Direction degrees:247.86

Photo 6

Photo Description: Fine silt/dirt and rounded river rock is the haul route surface.



Date: 2020/08/11 Time: 16:03:08 Lat: 46.90613 Long: -122.04009 Direction degrees: 84.18

Photo 7

Photo Description: The Puyallup River is located flowing toward the left behind the old wood dam with truck containers. Note the construction zone depth below the channelized river.



Date: 2020/08/11 Time: 16:04:29 Lat: 46.90628 Long: -122.04008 Direction degrees: 20.99

Photo 8

Photo Description: End of channelized river, location of sports turf that the river undercut and moved portions of the turf downstream.



Date: 2020/08/11 Time: 16:04:55 Lat: 46.90629 Long: -122.04005 Direction degrees: 72.65

Photo 9

Photo Description: Looking downstream.



Date:2020/08/11 Time:16:05:08 Lat:46.90629 Long:-122.04005 Direction degrees:285.48

Photo 10

Photo Description: No BMPs along haul road and side slopes; during storm events, this slope will likely deliver additional turbid water to the construction area in the riverbed.



Date:2020/08/11 Time:16:05:53 Lat:46.9063 Long:-122.04005 Direction degrees:31.02

Photo 11

Photo Description: In water construction zone pump for dewatering has no secondary containment for (110% capacity) of the fuel in the generator.



Date:2020/08/11 Time:16:07:37 Lat:46.90628 Long:-122.04006 Direction degrees:275.02

Photo 12

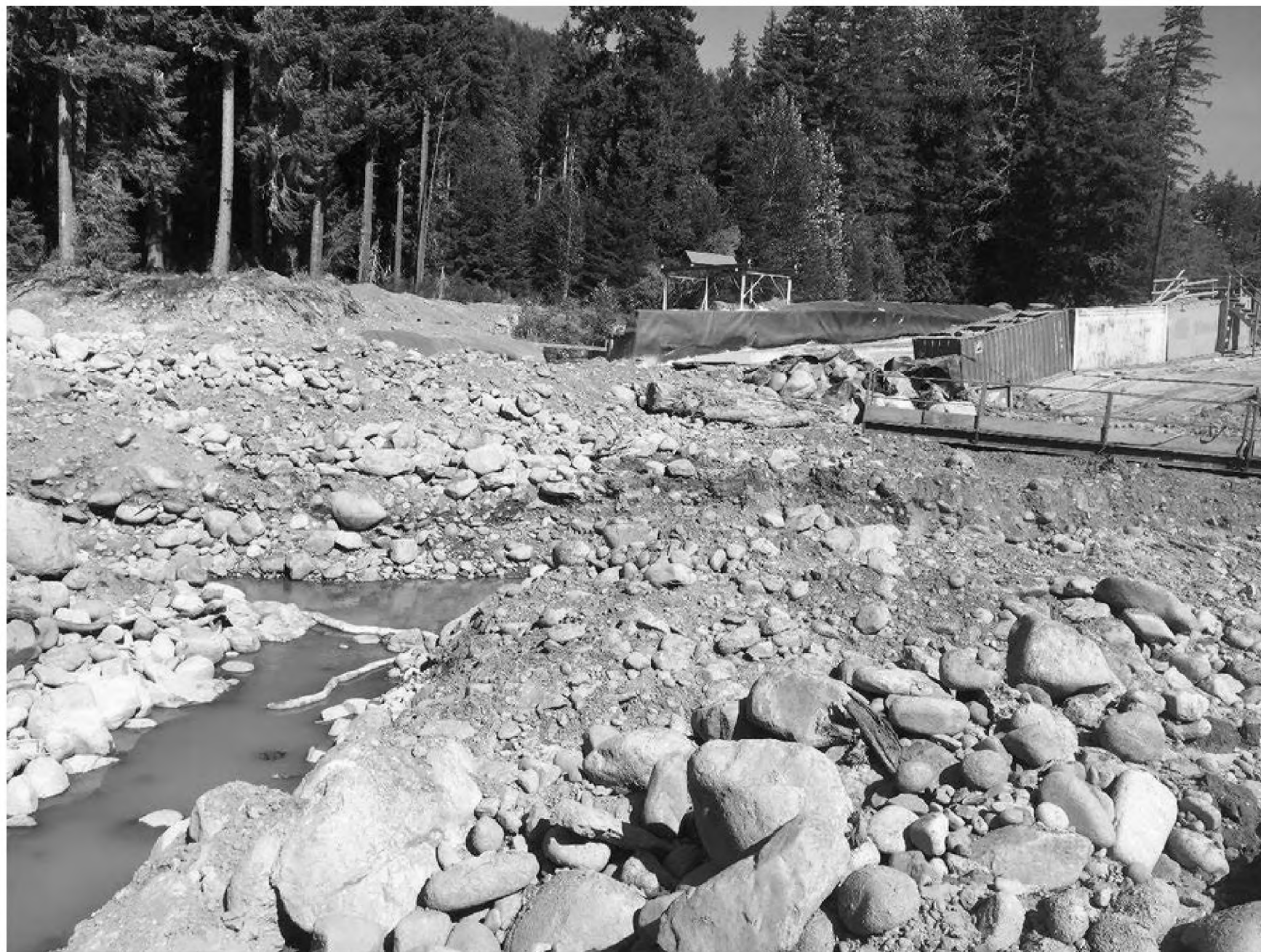
Photo Description: Generator for pumping water from the construction zone; water is pumped to CSWGP stormwater management BMPs (conveyance ditch, sediment pond, then stormwater pond); river water is comingled with construction water.



Date:2020/08/11 Time:16:09:36 Lat:46.90642 Long:-122.04 Direction degrees:323.78

Photo 13

Photo Description: Oil booms are not functional when not secured as intended.



Date: 2020/08/11 Time: 16:10:30 Lat: 46.9064 Long: -122.03996 Direction degrees: 340.29

Photo 14

Photo Description: Upland haul road and construction zone in the Puyallup riverbed.



Date:2020/08/11 Time:16:11:34 Lat:46.90645 Long:-122.04019 Direction degrees:34.97

Photo 15

Photo Description: Upland construction, new flume section under construction. Haul road needs additional BMPs.



Date:2020/08/11 Time:16:12:05 Lat:46.90656 Long:-122.04034 Direction degrees:212.63

Photo 16

Photo Description: Haul road on left bank of river, staging area for flume construction.



Date:2020/08/11 Time:16:14:15 Lat:46.90749 Long:-122.04078 Direction degrees:256.16

Photo 17

Photo Description: Equipment is checked for leaks at beginning and end of work day.



Date:2020/08/11 Time:16:15:31 Lat:46.90781 Long:-122.04094 Direction degrees:284.93

Photo 18

Photo Description: Stormwater pond (potentially a future acclimation pond for salmonids). Water enters this stormwater pond after traveling along the conveyance ditch, into the sediment pond (Photo 19).



Date:2020/08/11 Time:16:38:59 Lat:46.90837 Long:-122.04177 Direction degrees:222.73

Photo 19

Photo Description: Conveyance ditch discharges into the Sediment Pond with a standpipe and trash rack for overflow to the Stormwater Pond.



Date:2020/08/11 Time:16:40:30 Lat:46.90849 Long:-122.04218 Direction degrees:36.34

Photo 20

Photo Description: Looking upstream in the Stormwater Pond. Three bays, constructed with straw bales.



Date:2020/08/11 Time:16:46:20 Lat:46.90901 Long:-122.0426 Direction degrees:23.74

Photo 21

Photo Description: Thom explained the stormwater management system and the outlet of the Stormwater Pond.



Date: 2020/08/11 Time: 16:55:26 Lat: 46.90905 Long: -122.04255 Direction degrees: 19.71

Photo 22

Photo Description: Checkdams directly downstream of the Stormwater Pond (check dams through trees (off the photo – top right) are needed).



Date:2020/08/11 Time:16:57:26 Lat:46.90939 Long:-122.0427 Direction degrees:230.78

Photo 23

Photo Description: Puyallup River on right side, close to area of sampling point from the Stormwater Pond.



Date:2020/08/11 Time:16:58:22 Lat:46.90947 Long:-122.04269 Direction degrees:226.43

Photo 24

Photo Description: Re-construction of the flume, adjacent to the Sediment Pond (fence on left side of photo).



Date:2020/08/11 Time:16:59:21 Lat:46.90918 Long:-122.0428 Direction degrees:63.94

Photo 25

Photo Description: Old wooden diversion dam structure; Puyallup River is flowing through a lined channel behind the storage trailers.



Date:2020/08/11 Time:17:18:37 Lat:46.90609 Long:-122.04004 Direction degrees:89.06

Photo 26

Photo Description: Upstream end of the construction area for the intake structure.



Date:2020/08/11 Time:17:18:43 Lat:46.90609 Long:-122.04004 Direction degrees:122.22

Photo 27

Photo Description: Downstream end of the construction area for the intake structure.



Date:2020/08/11 Time:17:19:05 Lat:46.90556 Long:-122.03951 Direction degrees:69.69

Photo 28

Photo Description: Fish ladder opening to the right of the black liner of the channelized river.



Date:2020/08/11 Time:17:19:19 Lat:46.90539 Long:-122.03912 Direction degrees:309.03

Photo 29

Photo Description: Mostly dry pond on opposite side of the crane. Crane used to move rolls of sports turf to area of placement (below black liner). Berm along the left bank of the Puyallup River is part of the coffer dam setup.



Date:2020/08/11 Time:17:20:28 Lat:46.90519 Long:-122.03872 Direction degrees:306.08

Photo 30

Photo Description: Fish ladder across river from the crane.



Date:2020/08/11 Time:17:20:41 Lat:46.90519 Long:-122.03874 Direction degrees:253.66

Photo 31

Photo Description: Looking downstream from crane location; this is the area rolls of sports turf was delivered. No black rubber bits were observed on the ground in this location.



Date:2020/08/11 Time:17:21:42 Lat:46.90519 Long:-122.03866 Direction degrees:53.43